

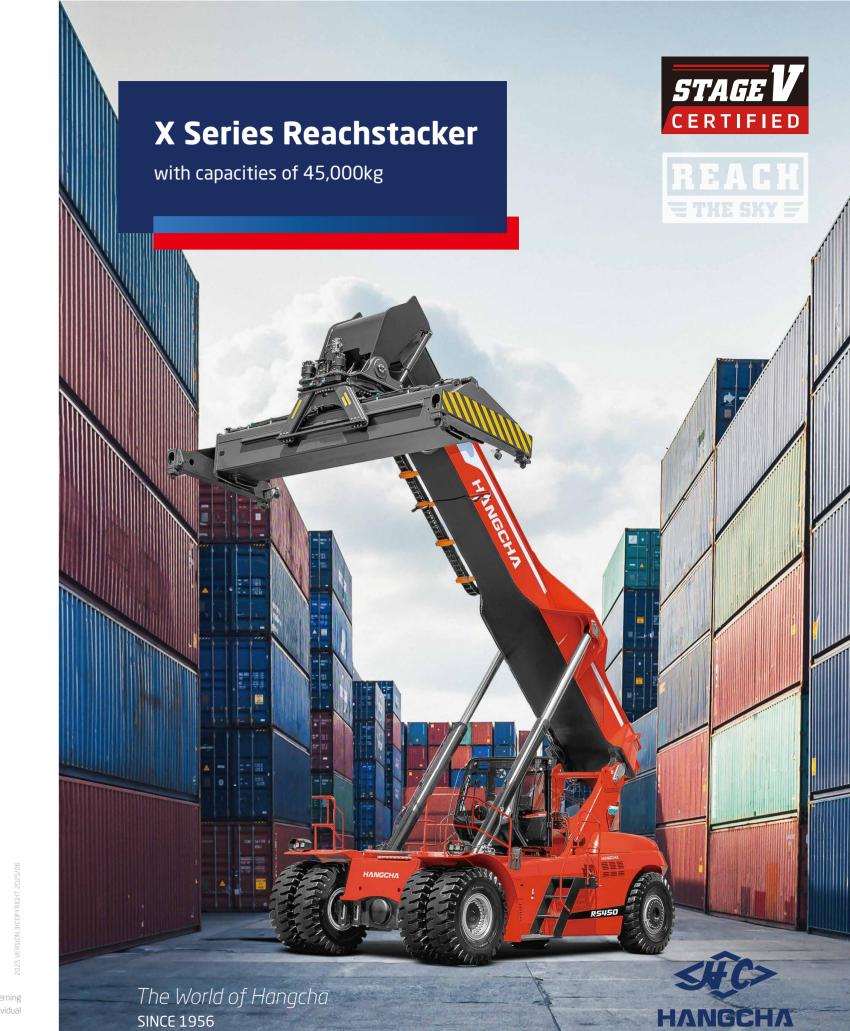


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# X SERIES REACHSTACKER

The RS4531CH-XRW86 Reachstacker is a newly developed product based on Hangcha's X series platforms.Inheriting the appearance of the X series family, it is fashionable, high-end and powerful. Using key parts of internationally renowned brands, it has excellent performance and guaranteed quality.

Using advanced control technologies, it is safe, reliable, comfortable and efficient. It is mainly used in the loading, handling and stacking operations of 20' and 40' ISO heavy containers and meets the requirements for high-intensity and long-term operations of containers at ports, docks, railway and highway transfer stations, storage yards, etc.

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## Safe and reliable

- / Durable and reliable high-quality key parts of internationally renowned brands.
- / Rich safety equipment 6-probe visual reverse radar, lock camera, eccentric load weighing system, vehicle fire protection and other equipment enable safe and easy operations.
- / Comprehensive safety protection technologies Safety technologies such as seat sensing, dynamic antitipping protection, longitudinal dual anti-tipping protection, spreader twist-lock dual protection, startup anti-stalling protection, fault protection, etc. are used to ensure safe operations at all times.

## **Easy maintenance**

- / CAN bus communication monitors the vehicle status in real time, which is convenient troubleshooting.
- / The easy-to-remove hood is designed. All the maintenance points are in easily accessible and safe positions and the electric control cabinet wiring method is adopted, which greatly simplifies the maintenance and repair and improves the maintenance efficiency.

## **Energy-saving and efficient**

## / Efficient control systems

Electric proportional control, throttle following control, vertical lift control, intelligent cooling fan control and torque control enable efficient and flexible control.

/ Hydraulic load sensing system

Through real-time adjustment of pump displacement in accordance with the load, high-precision flow control is realized, non-operating energy consumption of the engine is reduced and a significant energy saving effect is achieved.

/ Vehicle LED lighting system The high-performance and long-life vehicle LED lighting system can reduce energy consumption.





## Strong power system



- / With high performance and low fuel consumption, the low-speed high-torque VOLVO TAD1151VE engine has advanced fault diagnosis and fault protection functions. With a displacement of 10.8L, six in-line cylinders and low emission, it is turbocharged and meets EPA3, EU III A and China Stage III emission requirements.
- / Equipped with a Donaldson two-stage heavy-duty air filter and a high-efficiency cyclone pre-filter.
- / DANA36000 gearbox with a reliable structure and stable performance
- / German KESSLER's heavy-duty reinforced drive axle, two-stage decelerating and with a multi-disc wet driving brake, the brake oil filtration system and the independent brake oil cooling system are adapted to heavy-duty operation conditions.
- / The 800L super-large fuel tank meets the requirements of continuous and long-term work and saves working time.

## **Comprehensive electrical safety system**

- emergency switch

## Load indicator:

# Stylish and comfortable

/ Fashionable and high-end modeling elements

The pitch-down streamlined design presents a vivid and sturdy profile. Smooth coloring and the simple and elegant logo highlight fashionable and high-end design elements.

/ Ergonomic control platform

The ergonomically-designed control platform equipped with reasonably-arranged comfortable-feel buttons enables comfortable and accurate operations, plus the adjustable steering wheel and the suspended seat with an adjustable backrest, making the operator more comfortable.

/ Quiet, fully-suspended all-round vision cab In the cab, noises are less than 78dB and there are a cooling and heating air conditioner, sunshades, a reading light, a radio and other equipment to provide a comfortable operating environment, plus the largely-curved front and rear windows, large glass ceiling and all-glass side doors to enable a broad view.









### DONALDSON

VOLVO TAD1151VE



DANA36000

/ A 24V electrical system, a 110A AC generator, a main power switch, and a cab

/ Advanced CAN bus communication is used to acquire the working status of the input / output execution components of the engine, gearbox, spreader and vehicle and then display the data on the high-definition color screen, which is convenient for the operator to view. Fault protection can avoid safety accidents. / Dynamic anti-tipping protection control system:

Overload protection: the boom stops moving in the dangerous direction but can move in a safe direction.

lit green (indicating that the system can work normally);

lit orange (indicating that system is warning for particular attention);

lit red (indicating that the system is detecting a situation requiring immediate action)

Display: boom length, actual load, maximum load, boom height, jaw angle, outreach, load percentage bar, alarm code, etc.

/ Concentratedly-controlled lighting system

A concentratedly-controlled lighting system, an integrated button panel and comfortable-feel control switches enable comfortable and easy operations.

The LED lighting system is controlled by the CAN bus and has short-circuit and open-circuit diagnosis functions.

## Fully-suspended all-round vision cab

/ The suspended cabin, easy for maintenance.

- / With the vehicle frame damper connected and the tight sound and heat insulation design, most vibration and noise are shielded.
- / The largely-curved front and rear windows, all-glass left and right doors and large glass ceiling enable a broad view.
- / An inclinable telescopic steering column and fully-suspended adjustable seat with a high backrest and safety belt, with seat sensing and driving position sensing functions
- / A high-power cooling and heating air conditioner, two ventilation modes - internal and external circulation, sunshades, speed-adjustable wipers and defrosting function make driving more comfortable.





## **ELME new-generation container spreader**



- and the service life is prolonged by 30%.
- loss and is more energy-saving and efficient.
- of the spreader can be smoothly and finely controlled.
- query is quick and simple.
- indication of the action indicator are provided to avoid: the twist-lock is opened when the container is lifted.
- unlocked.

## Efficient hydraulic system

- / American PARKER's combined hydraulic valves, Danish DANFOSS's variable hydraulic pump and the load sensing hydraulic system, reduce the continuous load of the engine.
- / Flexible and precise electric proportional control.
- / Light load high-speed lifting increases work efficiency.
- / Independent temperature control and the large-size hydraulic oil cooler meet the work in the environment of up to 50 degrees.
- / Perfect high and low pressure oil filters improve the reliability of the hydraulic system.
- / Multiple hydraulic test points are set to simplify repair and maintenance work.

/ For the new-generation ELME817 series telescopic container spreader, the design of the telescopic beam, turntable, etc. are optimized, so that the structural strength is increased, the weight of the spreader is 16% less than that of the spreader of the last generation

/ The arrangement of the oil cylinder is changed to be more conducive to maintenance.

/ Design of the hydraulic system is optimized, so that the spreader system has less pressure

/ With electro-hydraulic proportional control, the speed is adjustable and the rotation angle

/ The latest Neuron programmable controller is used so that more optional features can be developed. Fault code information is provided according to the J1939 protocol so that fault

/ The twist-lock interlock device (mechanical and electro-hydraulic) and the real-time

the container is lifted when less than 4 corners are locked;

/ The lift interrupter can prevent the container from being lifted when the twist-lock is

partly twisted. The lift operations can be performed only when the twist-lock is locked or





## Vehicle cooling management

- / Fans with electronic motors are used independently to cool hydraulic oil and brake oil, so that the requirements for use in the 50-degree high temperature environment are met.
- / Torque converter oil temperature control management ensures that the gearbox works within the optimal temperature range.
- / High-power plate-fin heat dissipaters and suction fans with large cooling strength and low noise are used for the intercooling and cooling liquids, so that the requirements for use in the 50-degree high temperature environment are met.



## Appearance and performance

- / The pitch-down streamlined design of the vehicle presents a vivid and sturdy profile.
- / The optimized counterweight contour greatly reduces the turning radius of the
- vehicle, broadens the side rear and front rear views, and makes driving simple and safe.
- / The left and right stair handrails, mudguard handrails, together with the anti-skid pedals and anti-skid paper, fully protect the safety of personnel.





## **Features**

Transmission
Pneumatic tyre
 Solid tyre
Steering system
Fully hydraulic power steering
Centralized lubrication system (machine)
Power system
Extended exhaust pipe
 Lockable fuel cap
Spark arrester
Pre-cleaner air filter
Truck
Tow pin
Electrostatic discharge chain
Rear-view mirror on right & left mudguards
Separate brake oil tank
Operating system
Integrated joystick
Adjustable steering column
Adjustable armrest
Hydraulic system
Variable hydraulic pump system
Operation proportion control
Higher lifting speed at light load
Cab
Cabin
Climate control system (air-conditioning and heater)
Radio
Sunshade
USB charging interface
 Clothes hanger hook Reading light
 1 x 24V power supply
1 x 12V power supply
License plate frame
 Fan
Lifting components
Standard lifting height
 Spreader & twistlock double protection
 Emergency descent Twistlock counter
 Spreader swing prevention
 4 x Spreader twistlock camera
2 x Spreader twistlock light
Other
Standard color
 User defined colour
Fire extinguisher (2kg/4kg)
 Vehicle toolkit
Heating pack for the cold region
Automatic throttle control (lift / tilt / spreader)
 Lifting height indicator on display
Dynamic speed Limit depending of lift height(customer defined)

Standard	Options
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## Features

Electrical System	Standard	Options
Dperator Presense System (OPS) with buzzer	•	
CD display screen	•	
1ain power switch	•	
mergency power off switch	•	
1aintenance-free 24V lead acid battery	•	
Reverse buzzer	•	
ligh decible horn	•	
ED lights (entire vehicle)	•	
x Working light on front mudguard	•	
x Working light on boom	•	
2 x Rear working light	•	
Reverse sensor	•	
earview camera system	•	
earview camera system with memory		0
ront & rearview camera system		0
ront & rearview camera system with memory		0
l directions camera system with single display		0
t directions camera recording system with single display		0
n cabin CCTV		0
Rear blue safety light		0
Front and rear blue safety light		0
Three sided blue danger zone light		0
Dverspeed alarm		0
peed limitation		0
/oice reverse alarm		0
Automatic fire suppression system	•	
Two-way radio		0
Veight indicator in display	•	
Flashing warning light (non rotating) with control switch	•	
ccentric load weighing (with printer)		0
Fyre pressure monitoring		0
Dn-board diagnostics system	•	
/ehicle Control Unit (VCU)	•	
Dverride switch	•	
entral control panel for lighting system	•	
orque limitation	•	
/ertical lift control		0
ngine fault alarm	•	
ngine oil pressure alarm indicator	•	
Air filter warning indicator	•	
Vater temperature indicator	•	
lour meter	•	
Battery charge indicator	•	
ow hydraulic pressure alarm indicator	•	
lydraulic oil filter warning indicator	•	
)il gauge	•	
uel-water separator warning indicator	•	
)il temperature gauge	•	
Pre-heat indicator	•	
Drive mode indicator	•	
Parking brake indicator	•	
Service indicator	•	